Inca PCI-100 Board Installation and Setup

Use these instructions to install and set up your Inca PCI-I00 board for use with Inscriber products and Windows XP.

Recommended System Specs

SuperMicro X5DA8 motherboard

Dual 2.667 GHz Pentium 4 XEON Intel CPU

MS Windows XP SP1 Operating System

533 MHz FSB (frontside bus)

5I2 MB RAM

One 33/66 MHz 64 bit PCI slot 5/3.3Volts

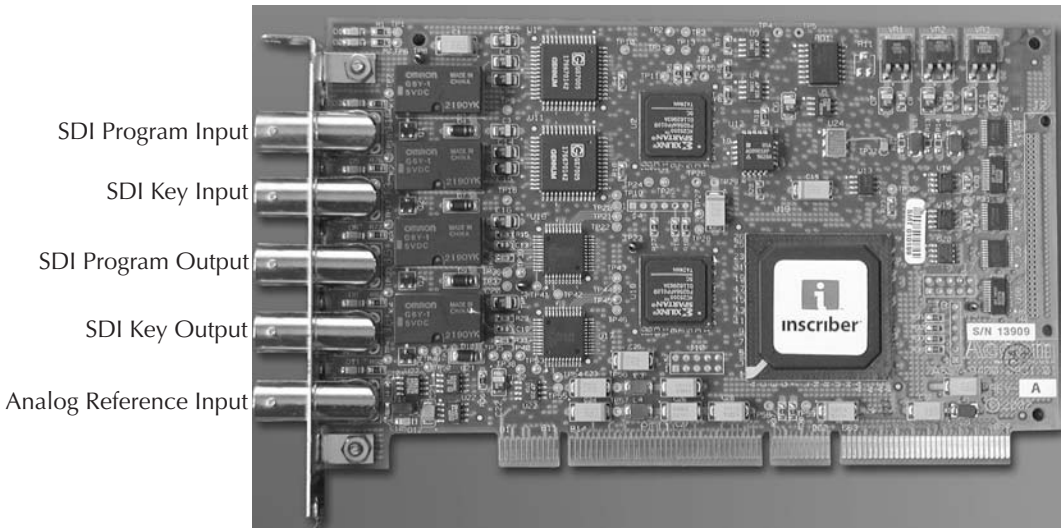
One 36 GB UI60 SCSI Boot Drive

Two additional 36 GB UI60 SCSI drives, OS striped for media storage

Matrox Millennium G450 or G550 Dual-Head video card for Preview output

Install

1. Turn off the computer.
2. Install the Inca PCI-I00 board in a 3.3 V or 5V 64bit PCI slot.
3. Make signal connections using the five BNC connectors on the back panel.



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Set Up

Install Hardware Drivers

1 Turn on the computer.

The "Welcome to the Found New Hardware Wizard" dialog is displayed indicating that the Multimedia Video Controller has been found.

2 Select "Install from a list or specific location", then click on Next.

3 Choose "Don't search. I will choose the driver to install", then click on Next.

4 Select "Sound, video and game controllers", then click on Next.

5 Insert the Inca CD

6 Click on the Have Disk button.

7 Click on Browse.

8 Open the Hardware Drivers folder on the CD.

9 Double-click on Inca100.inf.

10 Click on OK.

Inscriber Inca PCI-100 is now highlighted in the dialog.

11 Click on Next.

You are notified that the driver is not signed.

12 Click on Continue Anyway.

13 Reboot the computer.

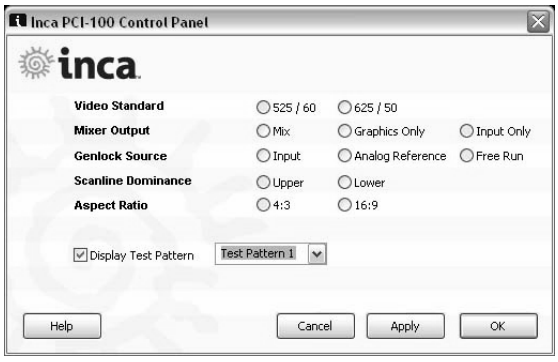
Install the Inca Program

1 Install the Inca program by following the installation prompts, and choosing the settings that are correct for your application.

2 Reboot the computer, but do not open the Inca program before you have confirmed the video settings.

Confirm Video Settings

1 After you have installed the Inca program, click on Start→Programs→ Inscriber→Inca→ Utilities→ Inca100ControlPanel.exe to open the Inca PCI-100 control panel.



2 Confirm or change video settings for your application.

See **Keying Mode** on the next page for details about choosing the correct Mixer Output setting.

3 Open the Inca program.

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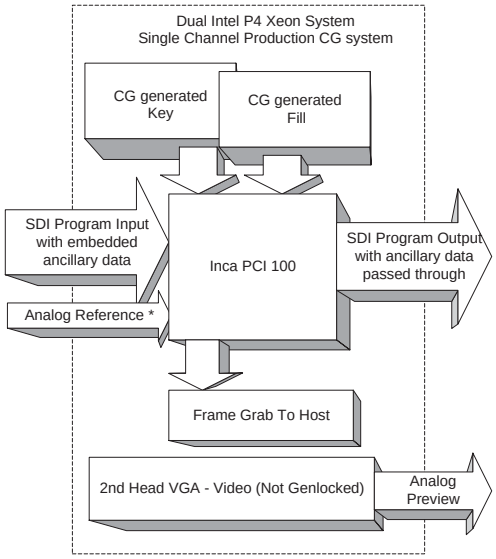
Keying Mode

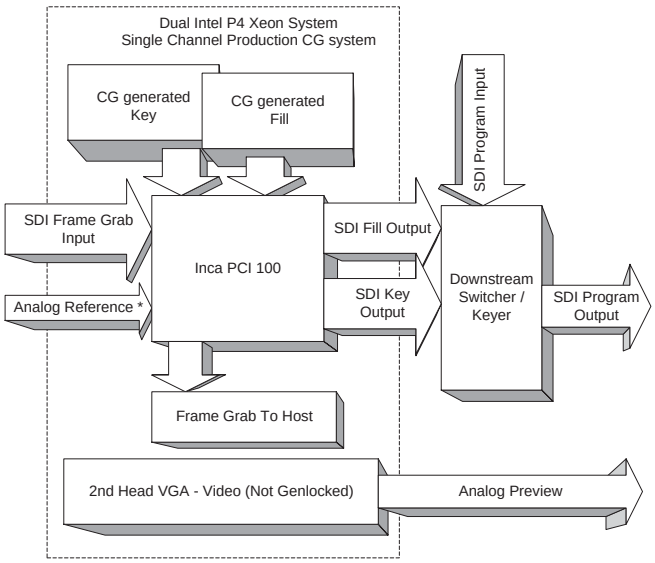
*System can be genlocked to the SDI input or to the analog reference input. When system is genlocked to the analog reference input the SDI input timing window is +-2uS.

In the Inca PCI-I00 control panel, select the Mixer Output that supports your requirements. Choose:

- Mix to output mixed video and graphics for pass through keying (internal key)


Dual Intel P4 Xeon System
Single Channel Production CG system
CG generated Key
CG generated Fill
SDI Program Input with embedded ancillary data
Analog Reference *
Inca PCI 100
SDI Program Output with ancillary data passed through
Frame Grab To Host
2nd Head VGA - Video (Not Genlocked)
Analog Preview

- Graphics Only to output a key and fill signal for downstream keying (external key)



- Input Only to output the video signal only for testing or frame grabs

Video Specifications

Supported Video Resolutions

- 525 line/29.97fps Active Region 720 x 486
- 625 line/25fps Active Region 720 x 576

Video Inputs

- One Serial Digital Program/Frame Grab input: - 4:2:2 SMPTE 259M-C, 8/10 bit SDI (270 Mbps @ 525/625)
- One Serial Digital Key: - 4:2:2 SMPTE 259M-C, 8/10 bit SDI (270 Mbps @ 525/625)
- One Analog Reference input (Signal type: blackburst or composite video)

Input Levels

- SDI: 800mv P-P
- Composite/Analog Reference: IV P-P

Input Impedance

- 75 Ohm

Video Outputs

- One Serial Digital Program Output (Fill) - 4:2:2 SMPTE 259M-C, 8/10 bit SDI (270 Mbps @ 525/625)
- One Serial Digital Program Output (Key)- 4:2:2 SMPTE 259M-C, 8/10 bit SDI (270 Mbps @ 525/625)
- One Composite Preview output - VGA card second head composite output (not genlocked - for monitoring purposes only)

System Genlock

When system is genlocked to the analog reference input the SDI input timing window is +-2uS.

- In the Pass Through Keying mode system can be genlocked to the SDI input or to the analog reference input.
- In the Downstream Keying mode system can be genlocked to the SDI input or to the analog reference input.

Output Levels

- SDI: 800mv P-P
- Composite: IV P-P

Output Impedance

- 75 Ohm

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